

**REMARKS/ARGUMENTS**

After the foregoing Amendment, Claims 1-3, 5-10, 12-14 are currently pending in this application. Please cancel claims 4 and 11 without prejudice. Claims 1 and 10 have been amended to incorporate the limitations of dependent claims 4 and 11 respectively. Claims 2-3, 5-6, 8, 12-14 have been amended for proper antecedent basis corresponding to the amendments to claims 1 and 10.

**Claim Objections**

The Examiner objected to claims 2-9 and 11-14 for various informalities. Claims 2-3, 5-6, 8-9, 12-14 are amended accordingly. Independent claims 1 and 10 are also amended to correct antecedent basis informalities. Claims 4 and 11 are canceled. The withdrawal of the objection to the claims 2-9 and 11-14 is respectfully requested.

**Claim Rejections - 35 USC § 102**

Claims 1-14 stand rejected under 35 USC 102(e) as being anticipated by U.S. Patent 6,240,100 (Riordan et al.). The Applicants respectfully disagree.

Regarding claims 1 and 10, Riordan discloses a device for correcting undesired residual DC offset voltages that degrade receivers. Examples of sources for DC offset voltages are local oscillator (LO) leakage in the form of conducted or

radiated energy into the IF stages of the receiver (col. 1, lines 26-50). The focus of Riordan is to use predicted DC offset correction values stored in lookup table 22, combine them with closed loop DC offset correction values 78, 80, and subtract the combined correction value from the received I and Q signals 50, 52. The disclosure of Riordan provides only a collateral relationship to automatic gain control (AGC) in that the predicted DC offset correction values are based on the range of possible discrete AGC settings, which is achieved during a calibration process (col. 7, lines 9-12). Riordan does not disclose an invention pertaining to the AGC itself.

In contrast, the claimed invention according to claims 1 and 10 is a system and method for dynamic AGC, wherein initial gain level settings are stored, a trend (i.e., increasing or decreasing) is determined, and the AGC settings are dynamically controlled in anticipation of the subsequently received signal levels.

The Examiner points to passages of Riordan in which DC offsets are measured, and equates this feature as anticipating the claimed limitation of "measuring signal strength." However, these features are distinguishable in that the received signal strength measured is a function of the signal as it is received from the transmitted communication signal, while DC offset is a function of local oscillator noise.

The Applicants also disagree that the claimed feature “means for determining a trend” is equivalent to determining an average. As supported by the specification (para. 38), the trend is determined as follows:

Over the course of several time frames, a sequence of stored RF input signal strengths are retrieved by the estimate enhancement unit 63, which refines the estimate of the received signal strengths of several earlier occurrences of the designated time slot by analyzing the recorded sequence for increasing or decreasing trends.

Thus, while Riordan may disclose a means for determining an average DC offsets, there is no suggestion of determination of an increasing or decreasing trend of values.

Claims 2-3 and 5-9 are dependent upon claim 1, which the Applicants believe are allowable over the cited prior art of record for the same reasons provided above. Claims 12-14 are dependent upon claim 10, which the Applicants believe are allowable over the cited prior art of record for the same reasons provided above.

Based on the arguments presented above, withdrawal of the 35 USC 102 rejection of claims 1-14 is respectfully requested.

### **Conclusion**

If the Examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephone interview will help to materially advance the prosecution of this

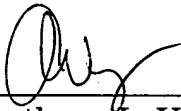
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application, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

In view of the foregoing amendment and remarks, Applicants respectfully submit that the present application, including claims 1-3, 5-9, is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

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